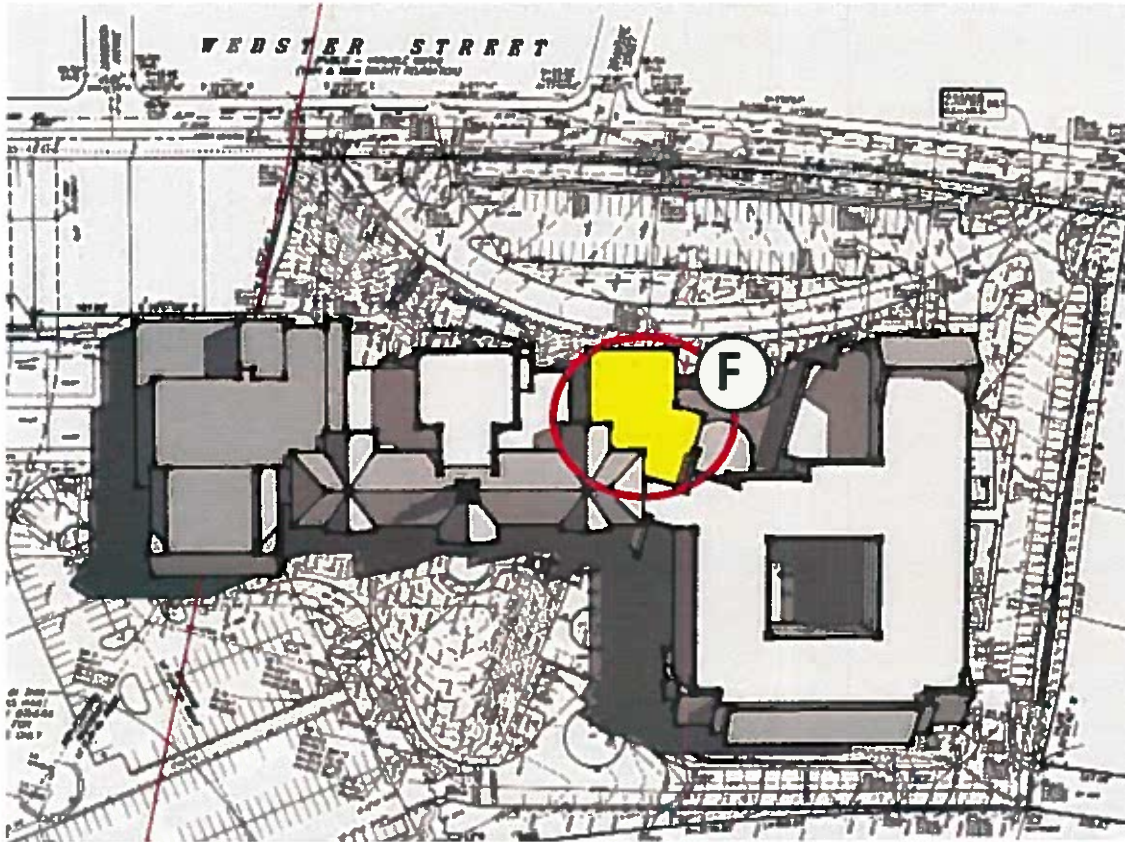


# Building Option F



**F** New Classroom Wing at Webster Street Entry

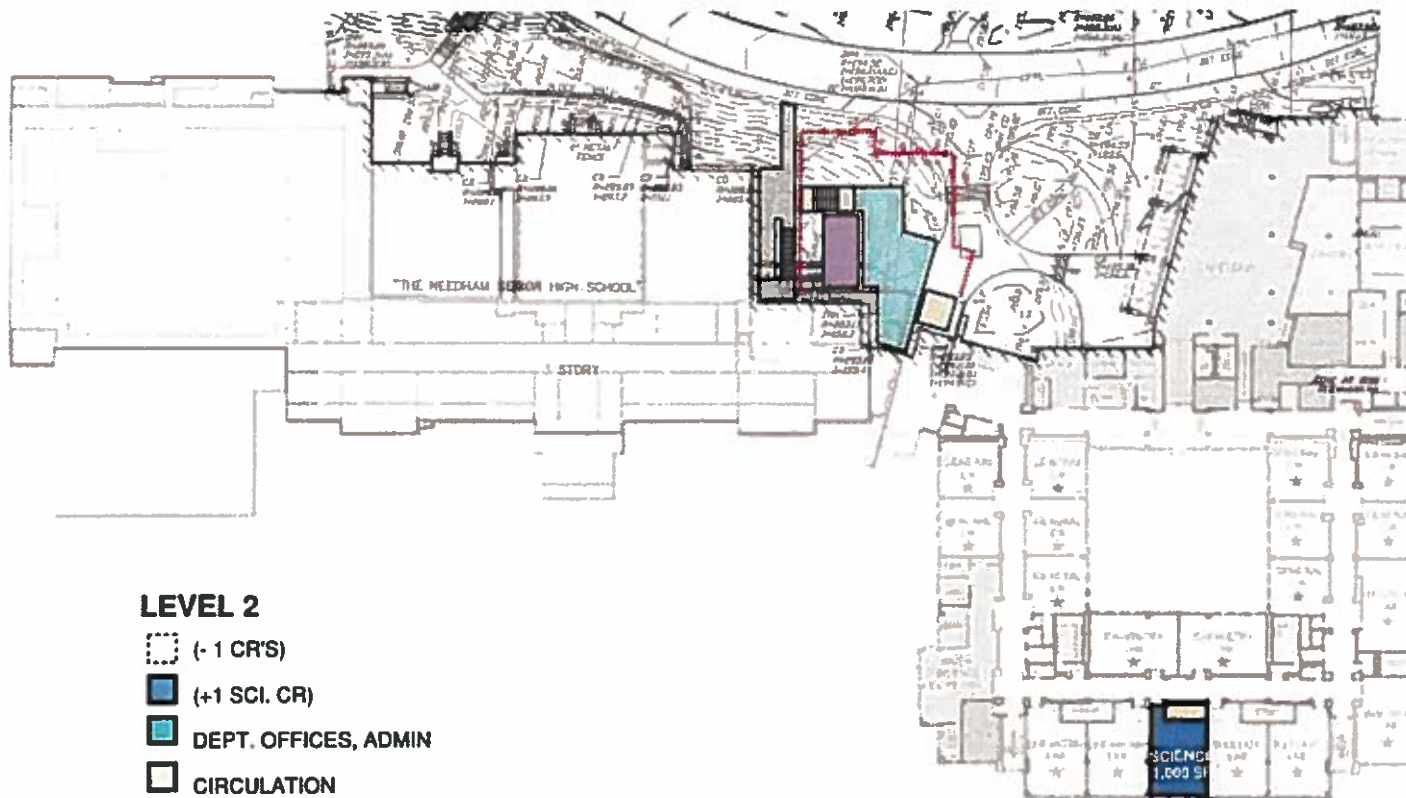
# Building Option F

(\*no change to Level 1)

## LEVEL 2:

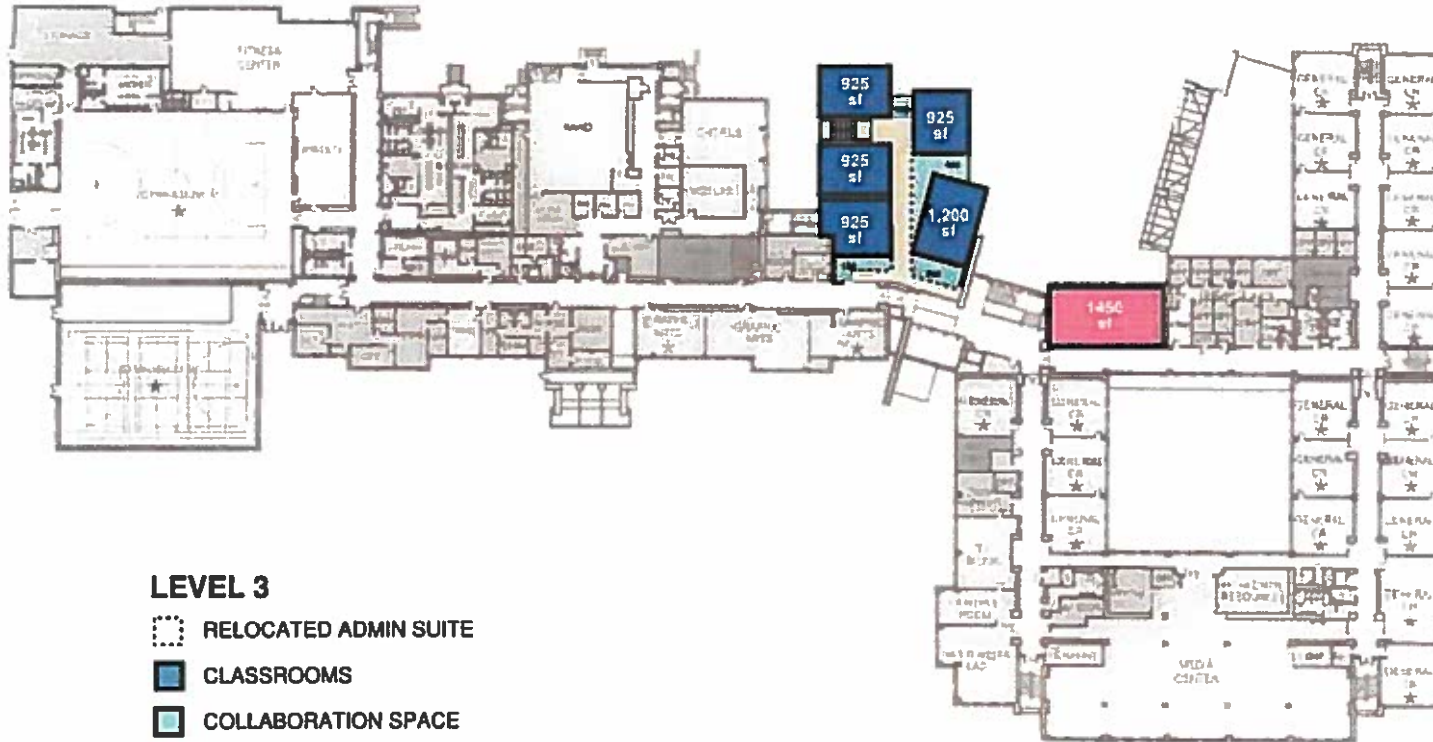
+ (1) SCIENCE + PREP  
+ 1500 SF ADMIN  
+ STORAGE

- SMALL SCIENCE + PREP



# Building Option F

## LEVEL 3:



### LEVEL 3

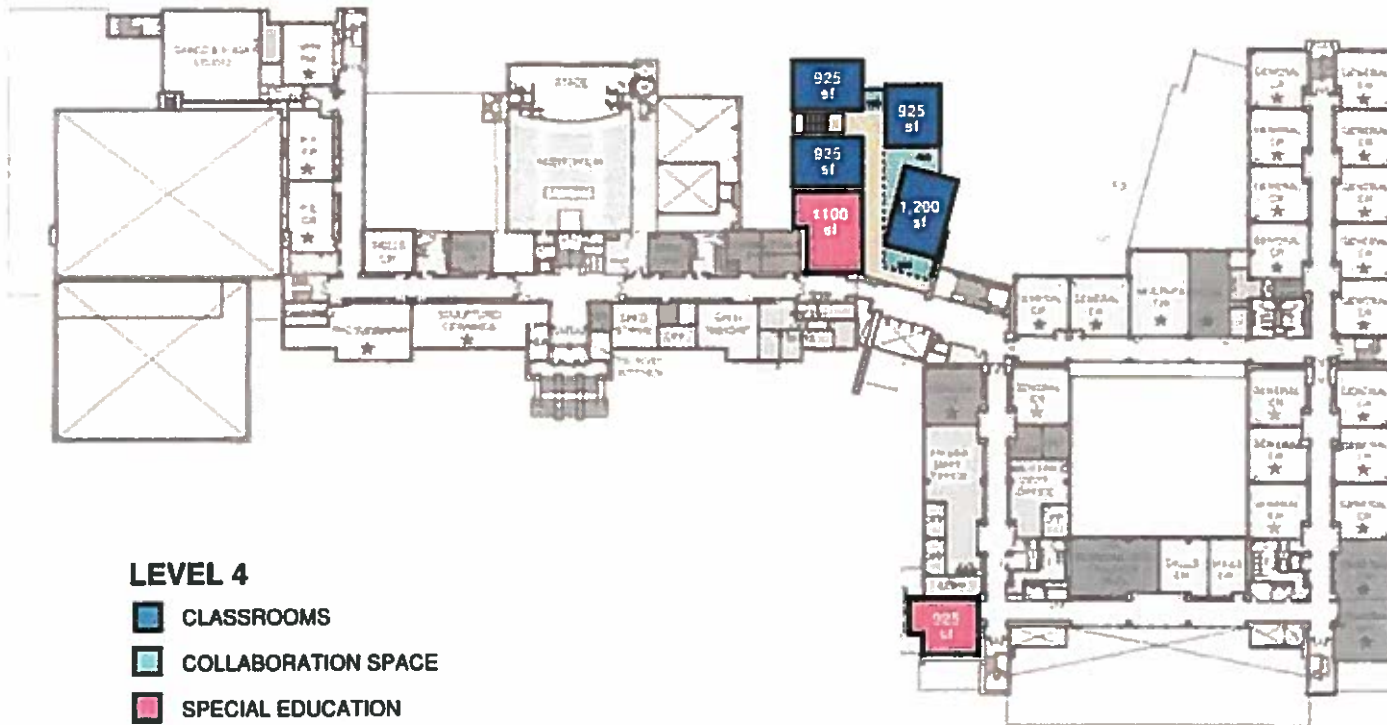
- RELOCATED ADMIN SUITE
- CLASSROOMS
- COLLABORATION SPACE
- SPECIAL EDUCATION

- + (4) 925 SF CLRMS
- + (1) 1,200 SF CLRM
- + (1) 1450 SF SPECIAL ED. CLRMS
- + STUDENT COLLABORATION
- 1500 SF ADMIN OFFICE

# Building Option F

## LEVEL 4:

- + (3) 925 SF CLSSRMS
- + (1) 1,200 SF CLRM
- + (1) 925 SF SPECIAL ED. CLASSROOM
- + (1) 1100 SF SPECIAL ED. CLASSROOM
- + STUDENT COLLABORATION
- STORAGE SPACE



# Building Option F

## Net gain:

- (1) Science + Prep

GAINS	LOSSES
+ 1 @ 1000 sf	none

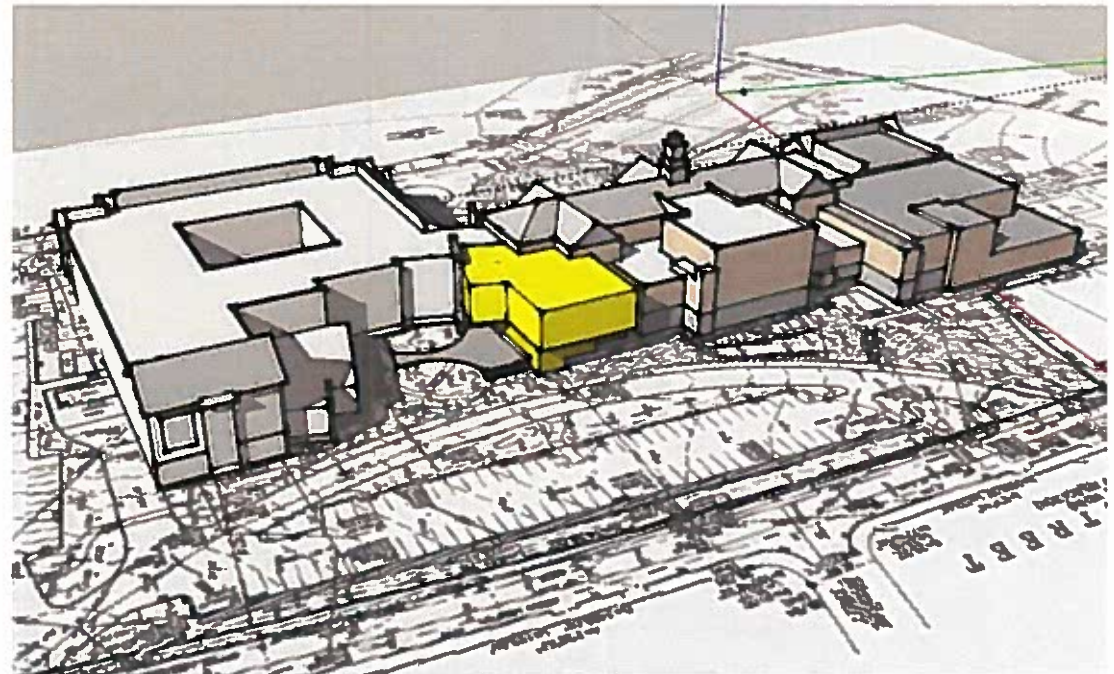
- (8) Classrooms

GAINS	LOSSES
+4 @ 925 sf	- 1 @ 925
+2 @ 1200 sf	

- (4) Special Ed. Classrooms

GAINS	LOSSES
+ 2 @ 725 sf	none
+ 2 @ 925 sf	
+ 1 @ 1100 sf	

- (2) Collaboration Spaces



# Building Option F

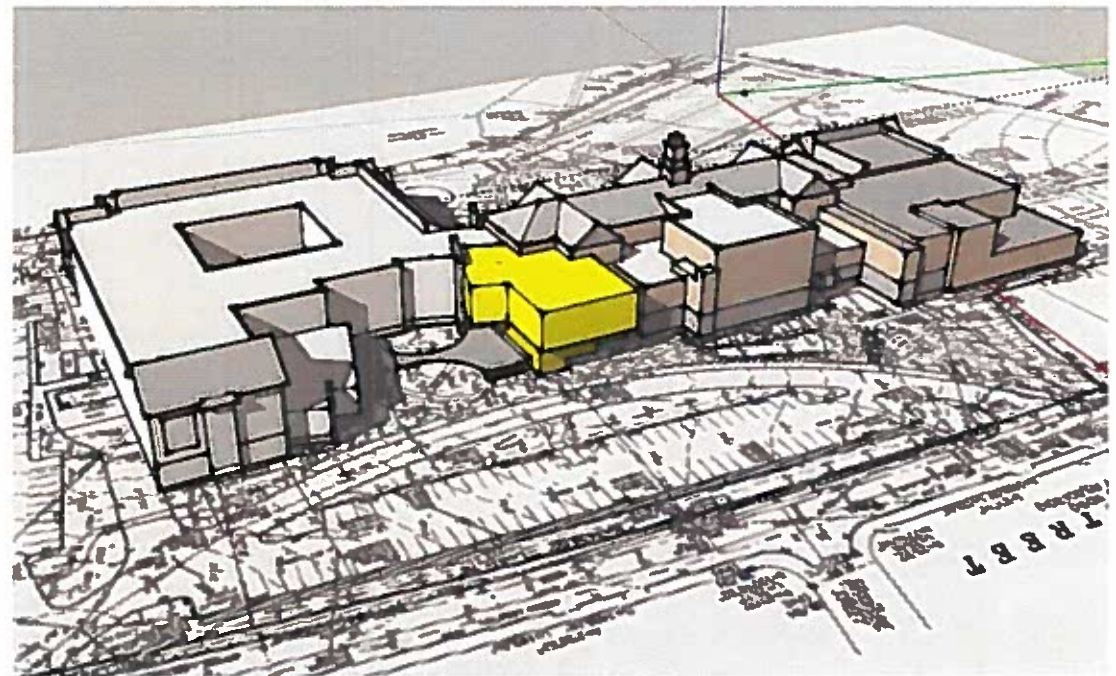
*+/- 12 – 14 months Duration*

## *Constraints:*

- *Construction Access*
- *Bus drop-off area & Entrance Impact*

## *Opportunities:*

- *Library remains as-is*
- *Improved Admin Connection*
- *Low impact to existing during construction*



# Comparative Matrix

OPTION B General Instruction of Middle & High School	OPTION C General Instruction of High School	OPTION D Instructional Support of University	OPTION E New Media Center of High School	OPTION F New Classroom Building of High School																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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FT.</b>		<p><b>\$17.4m</b></p> <table border="1"> <thead> <tr> <th>Qty</th> <th>Unit</th> <th>Area</th> <th>Qty</th> <th>Unit</th> <th>Area</th> <th>Qty</th> <th>Unit</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>CLASROOMS</td> <td>0 1,200</td> <td>0</td> <td>CLASROOMS</td> <td>0 1,200</td> <td>1</td> <td>CLASROOMS</td> <td>0 1,200</td> </tr> <tr> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> </tr> <tr> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> </tr> <tr> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> </tr> <tr> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> <td>0</td> <td>CLASROOMS</td> <td>0 725</td> </tr> <tr> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> </tr> <tr> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> </tr> <tr> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> </tr> <tr> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> <td>0</td> <td>SPECIAL EDUCATION</td> <td>0 0</td> </tr> <tr> <td>1</td> <td>SCIENCE LAB + PREP</td> <td>0 0</td> <td>0</td> <td>SCIENCE LAB</td> <td>0 0</td> <td>1</td> <td>SCIENCE LAB + PREP</td> <td>0 0</td> </tr> <tr> <td>1</td> <td>SCIENCE LAB + PREP</td> <td>0 0</td> <td>0</td> <td>SCIENCE LAB</td> <td>0 0</td> <td>1</td> <td>SCIENCE LAB + PREP</td> <td>0 0</td> </tr> <tr> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> </tr> <tr> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> <td>0</td> <td>COLLABORATION</td> <td>0 0</td> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> </tr> <tr> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> <td>0</td> <td>COLLABORATION</td> <td>0 0</td> <td>1</td> <td>COLLABORATION</td> <td>0 0</td> </tr> <tr> <td><b>14,750 sq. ft.</b></td> <td><b>TOTAL ADD. 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<b>14,750 sq. ft.</b>	<b>TOTAL ADD. SQ. FT.</b>		<b>2,250 sq. ft.</b>	<b>TOTAL ADD. SQ. FT.</b>		<b>14,900 sq. ft.</b>	<b>TOTAL ADD. SQ. FT.</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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<b>13,875 sq. ft.</b>	<b>TOTAL ADD. SQ. FT.</b>		<b>900 sq. ft.</b>	<b>TOTAL ADD. SQ. FT.</b>		<b>14,000 sq. ft.</b>	<b>TOTAL ADD. SQ. FT.</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

# Comparative Matrix

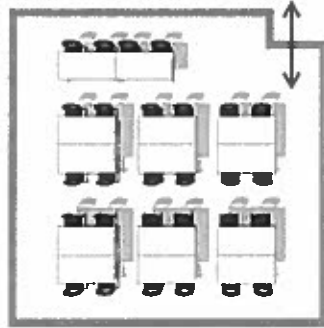
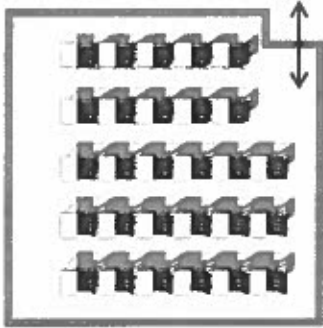
<p><b>OPTION F</b> <i>(new Classroom Wing at Webster St. Entry)</i></p> <p><b>\$11.4m</b></p>	NET SPACE(S) ADDED:			NET SPACE(S) LOST:			NET SPACE(S):		
	qty.	nsf size	type	qty.	nsf size	type	qty.	nsf size	type
	2	1,200	CLASSROOMS	0	1,200	CLASSROOMS	2	1,200	CLASSROOMS
	7	925		1	925		6	925	
	0	725		0	725		0	725	
	<b>9</b>	<b>8,875</b>		<b>1</b>	<b>925</b>		<b>8</b>	<b>7,950</b>	<b>TOTAL CLRMS</b>
	1	1,100	SPECIAL EDUCATION	0	1,100	SPECIAL EDUCATION	1	1,100	SPECIAL EDUCATION
	2	925		0	925		2	925	
	2	725		0	725		2	725	
	<b>4</b>	<b>4400</b>		<b>0</b>	<b>0</b>		<b>4</b>	<b>4,400</b>	<b>TOTAL SPECIAL ED.</b>
	1	1,000	SCIENCE LAB	0	0	SCIENCE LAB	1	1,000	SCIENCE LAB
	1	1,000		0	0		1	1,000	TOTAL SCI. + PREP
	2	800	COLLABORATION	0	0	COLLABORATION	2	800	COLLABORATION
	1	1,600		0	0		1	1,600	TOTAL COLLABORATION
<b>15,875.00 TOTAL ADD SQ. FT.</b>			<b>925.00 TOTAL LOST SQ. FT.</b>			<b>14,950.00 TOTAL SQ. FT.</b>			
ADDITIONAL CONSIDERATIONS									
<b>GOALS</b>									
CLASSROOMS	8	100%							
SCI. + PREP	1	100%							
SPECIAL ED.	5,500 SF	80%							
<b>CONSTRAINTS</b>									
Construction impact to bus loop & parking									
Construction impact to building entrance									
<b>OPPORTUNITIES</b>									
Improved Admin. Connection									
Reduced impact during construction									



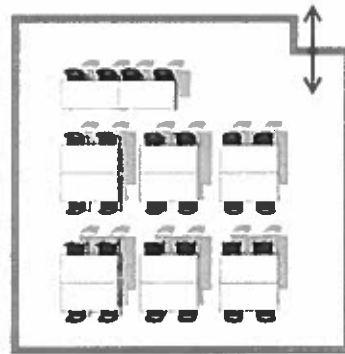
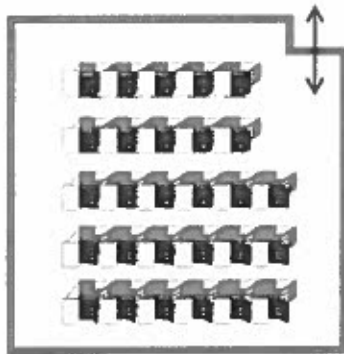
THANK YOU!

# 28 Students

725 NSF  
Existing



925 NSF  
Benchmark

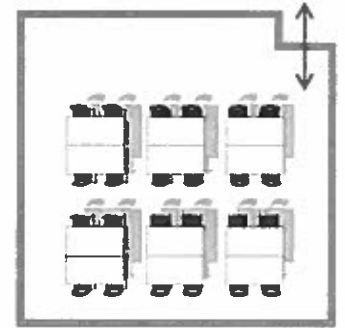
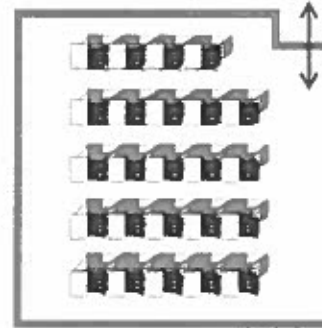


Tablet-style  
Desks

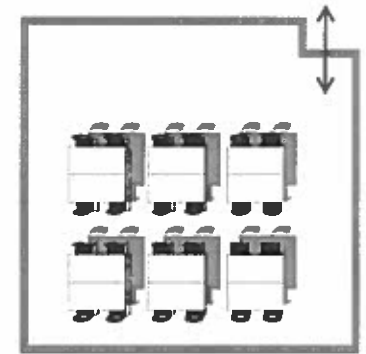
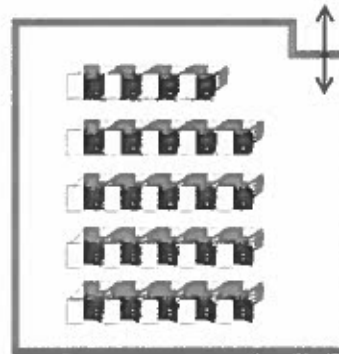
2-Student  
Tables

# 24 Students

725 NSF  
Existing



925 NSF  
Benchmark



Tablet-style  
Desks

2-Student  
Tables

## Basic Information – Macro Scale & Context

- **20** Students/ Teaching Station Average
- **28** Students/ Teaching Station (Max Core Academic Courses)
- **84%** Utilization Rate Average

### Existing 2016

Enroll: 1659  
Building GSF: 285,000  
General CRs: 52  
Science Labs: 14  
Art Studios: 8  
Music CRs: 3  
PE: 6\*  
Vo Tech: 2  
Other: 3\*\*  
Total = 88 Stations

### MSBA 2016

Enroll: 1659  
Building GSF: 289,902  
General CRs: 56  
Science Labs: 15  
Art Studios: 3  
Music CRs: 2  
PE: 3  
Vo Tech: 6  
Other: 0  
Total = 85 Stations

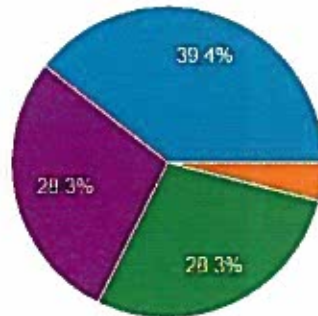
\* PE using more than six teaching stations currently

\*\* TV Studio, Multi-media Lab, and Interdisciplinary Classroom

Faculty & Staff Survey

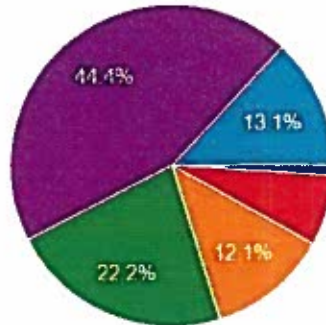
- Strongly Disagree
- Disagree
- Neutral
- Don't Know
- Agree
- Strongly Agree

67.7%



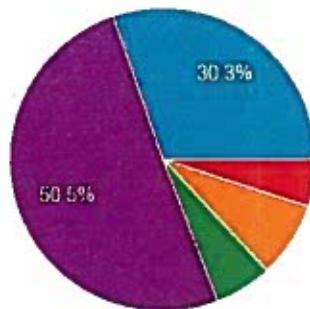
Needham High School needs more **General classrooms** (i.e. classrooms of about 900 SF to serve Math, English, Social Studies, and World Languages)

57.5%



Needham High School needs a **wider variety of instructional spaces** for Core Academic courses (i.e. rather than a one size fits all (900 SF) solution to General Classrooms, some general classrooms sized for 15 students, some for 30, some for 50, and all or some outfitted with movable partitions to adjust the room size and capacity)

80.8%



Needham High School needs more **drop-in student collaboration spaces** (i.e. spaces where students can choose their own environment to work with one another – small group rooms, tables and chairs, vertical surface, couches, etc.)

Needham High School - Theoretical Needs by Course

Number of Students Per Section

2016 Enrollment **1659**

Teaching Stations  
81

Target Enrollment **1800**

Teaching Stations  
88

Target Utilization Rate  
0.85

Target Students Per Classroom  
24

Day Period	A			B			Total Students Enrolled
	1	2	3	4	5	6	
Minutes, Monday - Thursday	90	90	80	50	50	90	90
Minutes, Friday							

Section Enrollment Cap	Actual 2016 Sections	Average Students Per Section	Theoretical Sections Needed 2016	Percentage of Total Population	Theoretical Sections Needed Future (Decimal)	Theoretical Sections Needed Future (Rounded)	Theoretical Space Need Future @100%	Theoretical Space Need Future @85%
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Faculty Name	Room #	Course Number	Course Title	Day Period							Total Students Enrolled	Section Enrollment Cap	Actual 2016 Sections	Average Students Per Section	Theoretical Sections Needed 2016	Percentage of Total Population	Theoretical Sections Needed Future (Decimal)	Theoretical Sections Needed Future (Rounded)	Theoretical Space Need Future @100%	Theoretical Space Need Future @85%		
Karen McCalley	719	0102.1	English 9 Hon																			
Jonathan Cooke	720	0102.10	English 9 Hon																			
Kelsey McCarthy	715	0102.2	English 9 Hon																			
Katherine Fanous	732	0102.3	English 9 Hon																			
Elizabeth Wiedner	701	0102.4	English 9 Hon																			
Laura Brinkmann	722	0102.5	English 9 Hon																			
Scott Kelly	715	0102.6	English 9 Hon																			
Katherine Fanous	732	0102.7	English 9 Hon																			
Katherine Fanous	732	0102.8	English 9 Hon																			
Laura Brinkmann	722	0102.9	English 9 Hon																			
Scott Kelly	715	0103.1	English 9																			
Jonathan Cooke	720	0103.2	English 9																			
Kelsey Bishop	717	0103.3	English 9																			
Karen McCalley	719	0103.4	English 9																			
Brian Herrmann	701	0431.1	English 12 Acc																			
Brian Herrmann	702	0431.2	English 12 Acc																			
Elizabeth Brown	721	0431.3	English 12 Acc																			
Elizabeth Cox	726	0431.4	English 12 Acc																			
Patrick Gallagher	724	0431.5	English 12 Acc																			

ENGLISH DEPARTMENT SUB-TOTAL

75 22.31

88.00

15.00

# Preliminary Space Summary

## Core Academic – In addition to existing

- **(6) General Classrooms @ 925 NSF each**  
MSBA is  $888 \div 23 = 38.5$  NSF per Student  
24 students X 38.5 NSF per Student = 924
- **(2) General Classrooms @ 1200 NSF each, divisible into (2) 600 NSF classrooms**  
 $16 \times 38.5 = 616$  NSF

## Science – In addition to existing

- **(1) Multi-discipline Science Lecture Lab @ 1440 NSF**
- **(1) Science Prep Space @ 200 NSF**

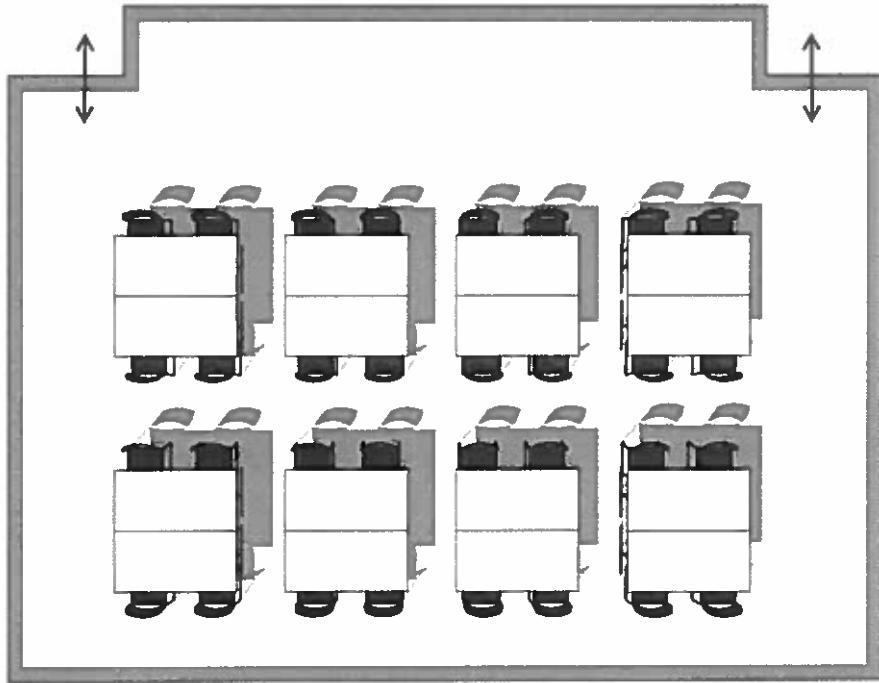
## Special Education – Trying to Achieve

- **(9) Classrooms @ 750 NSF**
- **(20) 125 NSF Small Group/Testing Spaces**
- **(1) Life Skills Classroom Suite, Size @ 1200-1500 NSF**
- **(10) 500 NSF Grade-level skill center rooms**
- **Administrative Suite**

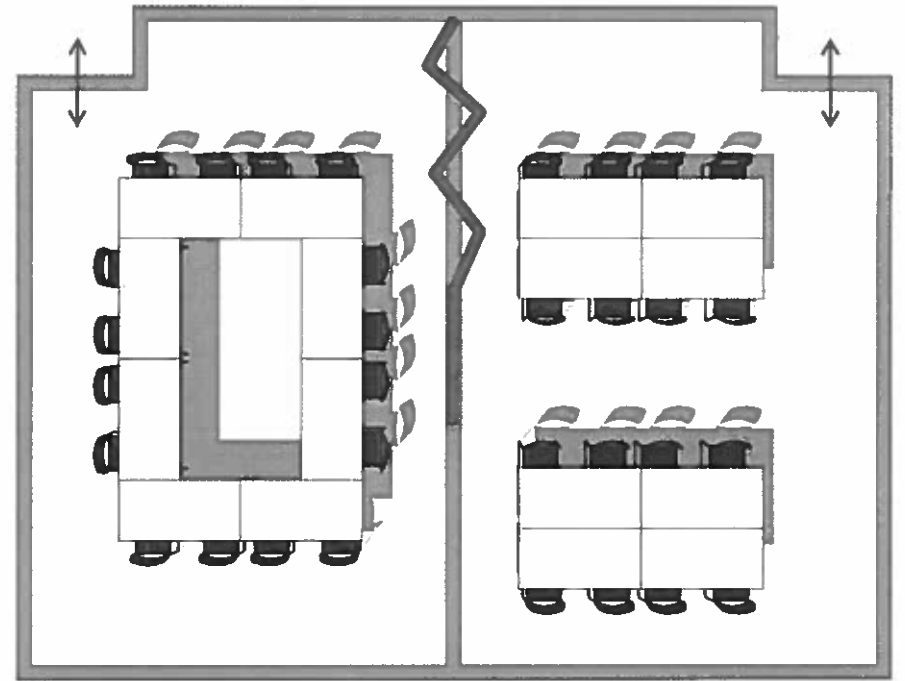
## Student Collaboration Spaces – In addition to existing

- **As Options Allow**
- **Some Noisy**
- **Some Quiet**
- **Some Open**
- **Some Closed**
- **Lots of vertical writing surface**
- **Access to Wifi**
- **Access to Digital Display**
- **Some Hard Furnishings**
- **Some Soft Furnishings**
- **Highly Mobile Furnishings**
- **Food Friendly**

1200 NSF  
32 Students



600 NSF  
16 Students





Battle Creek Area Mathematics & Science Center – Battle Creek, MI  
TowerPinkster - Architects